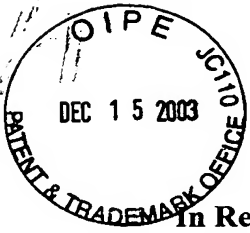


Image

DOCKET NO.: BMS-2442/DM-7007

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Shuang Liu

Confirmation No.: Not Yet Assigned

Application No.: 10/663,090

Group Art Unit: Not Yet Assigned

Filing Date: September 15, 2003

Examiner: Not Yet Assigned

For: MACROCYCLIC CHELANTS FOR METALLOPHARMACEUTICALS

DATE OF DEPOSIT: December 11, 2003

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID, ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE UNITED STATES PATENT AND TRADEMARK OFFICE, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450.

*Elizabeth A. McLoud*

TYPED NAME: Elizabeth A. McLoud

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

- ☒ In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in § 1.491, before the mailing date

of a first Office Action on the merits of the above-identified application, or before the mailing date of a first Office Action after the filing of request for continued examination under § 1.114, no additional fee is required.

☐ In accordance with § 1.129(a), this Information Disclosure Statement is being filed in connection with ☐ the first or ☐ second After Final Submission, therefore:

☐ Certification in Accordance with § 1.97(e) is attached; or

☐ The fee of **\$180.00** as set forth in § 1.17(p) is attached.

☐ In accordance with § 1.97(c), this Information Disclosure Statement is being filed after the period set forth in § 1.97(b) above but before the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311, or before an action that otherwise closes prosecution in the application, therefore:

☐ Certification in Accordance with § 1.97(e) is attached;  
or

☐ The fee of **\$180.00** as set forth in § 1.17(p) is attached.

☐ In accordance with § 1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with § 1.97(e); and the submission fee of **\$180.00** as set forth in § 1.17(p).

☐ Copies of each of the references listed on the attached Form PTO-1449 are enclosed herewith.

- ☒ Copies of references listed on the attached Form PTO-1449 are enclosed herewith
- ☒ Copies of references listed on the attached Form PTO 1449 are not required to be submitted pursuant to the June 30, 2003 recent revisions to 37 CFR § 1.98(a)(2)(i).

EXCEPT THAT:

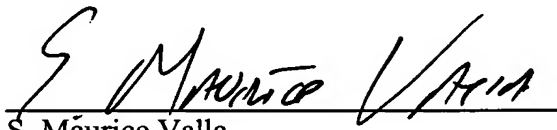
- ☒ In view of the voluminous nature of references 3, 4, 6, 19, 20, 21, 43, , and the likelihood that these references are available to the Examiner, copies are not enclosed herewith.
- ☒ In accordance with § 1.98(d), copies of the following references listed on the attached Form PTO-1449 are not enclosed herewith because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application(s) for which a claim for priority under 35 U.S.C. § 120 have been made in the instant application:
  - ☒ Copies of references **53, 72-75** listed on the attached Form PTO-1449 were previously cited by or submitted to the Patent and Trademark Office in prior Application No. **09/660,377**, filed **September 12, 2000**.

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

- ☐ The relevance of those listed references which are not in the English language is as follows:
- ☒ There are no listed references which are not in the English language.

Date:

12/11/03

  
S. Maurice Valla  
Registration No. 43,966

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Facsimile: (215) 568-3439



<b>Form PTO-1449 Modified</b>  List of Patent and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office	Docket No. BMS-2442/ DM-7007 DIV		Application No. 10/663,090	
	Applicant Shuang Liu			
	Filing Date September 15, 2003		Group Not Yet Assigned	
	Confirmation No. Not Yet Assigned			
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>				
	1	Arap, W., et al., "Cancer treatment by targeted drug delivery to tumor vasculature in a mouse model," <i>Science</i> , January 16, 1998, 279, 377-380		
	2	Berning, D.E., et al., "Chemical and biomedical motifs of the reactions of hydroxymethylphosphines with amines, amino acids, and model peptides," <i>J. Am. Chem. Soc.</i> , 1999, 121, 1658-1664		
*	3	Bodanszky, "Peptide Chemistry: A Practical Textbook," <i>Springer-Verlag, New York</i> , 1988		
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<b>EXAMINER</b>		<b>DATE CONSIDERED</b>		

\* Copies of these references will not be forwarded to the U.S. Patent and Trademark Office since they are believed to be too voluminous and easily obtainable by the Examiner.



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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	11	Corbett, J.W., et al., "Solid-phase synthesis of a selective $\alpha_3\beta_3$ integrin antagonist library," <i>Biorg. &amp; Med. Chem. Letts.</i> , <b>1997</b> , 7(11), 1371-1376
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	40	Singh, P.R., et al., "Transition metal chemistry of main group hydrazides, Part 14: Evaluation of new Tc-99m chelates of thiol functionalized phosphorus hydrazides," <i>Nucl. Med. Biol.</i> , 1995, 22(7), 849-857	
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	41	Soker, S., et al., "Inhibition of vascular endothelial growth factor (VEGF)-induced endothelial cell proliferation by a peptide corresponding to the exon 7-encoded domain of VEGF <sub>165</sub> ," <i>J. of Biol. Chem.</i> , <b>1997</b> , 272(50), 31582-31588	
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	46	Tramotini, M., et al., "Tetrahedron Report Number 271," <i>Tetrahedron</i> , <b>1990</b> , 1791-1827	
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	49	Varga, T.R., "Synthesis of bis(aminomethyl)-phosphinic acids via a mannich reaction," <i>Synthetic Communication</i> , <b>1997</b> , 27(17), 2899-2903	
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	51	Wu, P.-L., et al., "1-acyl-2-alkylhydrazines by the reduction of acylhydrazones," <i>Synthesis</i> , April 1995, 435-438	
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<b>U. S. PATENT DOCUMENTS</b>							
<b>Examiner Initial</b>		<b>Document No.</b>	<b>Date</b>	<b>Name</b>	<b>Class</b>	<b>Subclass</b>	
	53	5,730,787	03/24/98	Kasai			
	54	4,427,646	01/24/84	Olexa, et al.	424	1.1	
	55	4,578,079	03/25/86	Ruoslahti, et al.	623	11	
	56	4,792,525	12/20/88	Ruoslahti, et al.	435	240.243	
	57	5,086,069	02/04/92	Klein, et al.	514	399	
	58	5,087,440	02/11/92	Cacheris, et al.	424	9	
	59	5,155,215	10/13/92	Ranney	534	16	
	60	5,217,705	06/08/93	Reno, et al.	424	1.1	
	61	5,270,030	12/14/93	Vogel, et al.	424	9	
	62	5,277,892	01/11/94	Rhodes	424	1.69	
	63	5,279,812	01/18/94	Krstenansky, et al.	424	1.1	
	64	5,536,814	07/16/96	Ruoslahti, et al.	530	329	
	65	5,766,591	06/16/98	Brooks, et al.	424	184.1	
	66	5,767,071	06/16/98	Palladino, et al.	514	11	
	67	5,770,565	06/23/98	Cheng, et al.	514	11	
	68	5,780,426	07/14/98	Palladino, et al.	514	9	
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	69	5,792,444	08/11/98	Fischman, et al.	424	1.69
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Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO
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	X 73	WO 94/03464	02/17/94	PCT		
	X 74	WO 94/26275	11/24/94	PCT		
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					YES	NO	
—	78	WO 90/00178	01/11/90	PCT			
—	79	WO 90/03391	04/05/90	PCT			
—	80	WO 90/15818	12/27/90	PCT			
—	81	WO 91/01331	02/07/91	PCT			
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—	83	WO 92/13572	08/20/92	PCT			
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	91	0 398 143 A1 ✓	11/22/90	EPO			
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**FOREIGN PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO
—	95	0 422 938 A1 ✓	4/17/91	EPO		
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	99	2 225 579 A	06/06/90	Great Britain		

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
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